

We Claim:

1. A system for conversion of a video presentation to an electronic media format, the system comprising:
 - a source file having signals;
 - a video capture board having means for receiving signals from the source file;
 - means for interpreting the signals received by the video capture board;
 - means for converting the signals received by the video capture board to digital data;
 - means for producing a pre-processed file from the digital data of the video capture board; and
 - means for producing output from the pre-processed file of the video capture board.
2. The system of Claim 1 further comprising:
 - an input means associated with the video capture board for receiving the signals from the source.
3. The system of Claim 1 further comprising:
 - a pre-authoring program wherein the pre-authoring program receives the output from the pre-processed file of the video capture board and modifies the output.
4. The system of Claim 3 further comprising:
 - a disk wherein the output modified by the pre-authoring program is written to the disk such that a user may obtain the modified output.
5. The system of Claim 3 further comprising:
 - means for encoding the output modified by the pre-authoring program.
6. The system of Claim 5 further comprising:
 - means for encrypting the output after the output has been encoded.

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7. The system of Claim 1 further comprising:
means for multiplexing the output.

8. The system of Claim 7 further comprising:
means for encrypting the output after the output has
been multiplexed.

9. A process for conversion of a video
presentation to an electronic media format, the process
comprising the steps of:

providing a source file having signals;

providing a video capture board having means for
receiving signals from the source file;

interpreting the signals received from the source
file;

converting the signals received from the source file
to digital data;

producing a pre-processed file from the digital
data; and

producing a finished file output from the pre-
processed file.

10. The process of Claim 9 wherein the finished
file output is an analog video presentation.

11. The process of Claim 9 wherein the finished
file output is a digital video presentation.

12. The process of Claim 9 further comprising the
step of:

modifying the finished file output such that a video
image size is modified.

13. The process of Claim 9 further comprising the
step of:

modifying the finished file output such that a frame
rate is modified.

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14. The process of Claim 9 further comprising the step of:

modifying the finished file output such that a re-sampling audio is modified.

15. The process of Claim 9 further comprising the step of:

providing an input associated with the video capture board wherein the video capture board acquires the signals from the source file.

16. The process of Claim 9 further comprising the step of:

retrieving the finished file output produced from the pre-processed file wherein the finished file output is in an uncompressed format.

17. The process of Claim 9 further comprising the step of:

retrieving the finished file output produced from the pre-processed file wherein the finished file output is visual finished file output.

18. The process of Claim 9 further comprising the step of:

retrieving the finished file output produced from the pre-processed file wherein the finished file output is an audio finished file output.

19. The process of Claim 9 further comprising the step of:

retrieving the finished file output produced from the pre-processed file wherein the finished file output is a combination of an audio output and a visual output.

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20. The process of Claim 19 further comprising the step of:

creating delays to maintain synchronization between the audio output and the visual output.

21. The process of Claim 20 further comprising the step of:

correcting for cumulative errors from loss of synchronization of the audio output and the visual output.

22. The process of Claim 19 further comprising the step of:

encoding the audio output and the visual output.

23. The process of Claim 22 further comprising:
selecting a desired transfer rate for adjusting encoding levels for the audio output and the visual output.

24. The process of Claim 9 further comprising the step of:

encoding the finished file output.

25. The process of Claim 24 further comprising the step of:

encrypting the finished file output after the finished file output has been encoded.

26. The process of Claim 9 further comprising the step of:

multiplexing the finished file output.

27. The process of Claim 26 further comprising the step of:

encrypting the finished file output after the finished file output has been multiplexed.

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28. The process of Claim 9 further comprising the steps of:

dividing the finished file output into a predetermined size of incremental segments; and

multiplexing the predetermined size of incremental segments into one bit stream.

29. The process of Claim 28 further comprising the step of:

encrypting the bit stream after multiplexing.

30. The process of Claim 28 wherein the bit stream is an alternating pattern of signals.

31. The process of Claim 28 further comprising the step of:

incorporating intentional delays into the bit stream while encoding the bit stream.

32. The process of Claim 9 further comprising the step of:

decrypting signals from the finished file output as the signals are received.

33. The process of Claim 9 further comprising the step of:

creating a rim buffering system for playback of the finished file output.

34. A process for encoding a file, the process comprising the steps of:

providing a file having a first frame and a second frame;

processing data from the first frame;

reading data from the second frame;

skipping data from the second frame that was processed in the first frame; and

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processing data from the second frame that was not skipped.

35. The process of Claim 34 further comprising the steps of:

extracting vectors from the first frame after the data has been processed; and

extracting vectors from the second frame after the data has been processed.

36. The process of Claim 35 further comprising the step of:

quantifying the vectors.

37. The process of Claim 36 further comprising the step of:

compressing the vectors into a bit stream to create motion.

38. An encoding process, the process comprising the steps of:

processing data and vectors from a first frame;

creating an encoded frame from the processed data and vectors of the first frame;

processing data and vectors from the second frame;

rejecting data and vectors from the second frame that are identical to the data and vectors of the first frame; and

adding the processed data and vectors from the second frame to the encoded frame.

39. The encoding process of Claim 38 further comprising the step of:

processing data and vectors from subsequent frames.

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40. The encoding process of Claim 39 further comprising the step of:

rejecting data and vectors from the subsequent frame that are identical to the data and vectors of the first frame and second frame.

41. The encoding process of Claim 39 further comprising the step of:

adding the processed data and vectors from the subsequent frames to the encoded frame.

42. An encoding process for encoding an audio file, the process comprising the steps of:

providing an audio sub-band encoding algorithm designed for audio signal processing;

splitting the audio file into frequency bands;

removing undetectable portions of the audio file;

and

encoding detectable portions of the audio file using bit-rates.

43. The process of Claim 42 further comprising the step of:

using the bit-rates with more bits per sample used in a mid-frequency range.

44. The process of Claim 43 wherein the bit-rates are variable.

45. The process of Claim 43 wherein the bit-rates are fixed.

46. A rim buffering system, the system comprising:
means for loading a file;

means for presenting the file that has been loaded;

a buffer for buffering the file that has been presented;

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means for automatically pausing the file while being presented when the buffer drops to a certain level; and

means for restarting the presentation of the file while maintaining synchronization after the buffer reaches another level.

47. A process for enabling a bit stream to be indexed on a random access basis, the process comprising the steps of:

providing one key frame;

inserting the one key frame into a bit stream at least every two seconds;

evaluating the one key frame;

eliminating the one key frame if the one key frame is not required; and

updating the bit stream with the one key frame.

48. The process of Claim 47 further comprising the step of:

using a low bit stream transfer rate.

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